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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/476,358	01/03/2000	PAUL SMITH	PM-265540	7714

909 7590 03/25/2003
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[REDACTED] EXAMINER

PARKER, KENNETH

[REDACTED] ART UNIT [REDACTED] PAPER NUMBER

2871

DATE MAILED: 03/25/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	09/476,358	Examiner Kenneth A Parker	Art Unit 2871

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 19 December 2002.

2a) This action is FINAL. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 33-55 and 57-64 is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5) Claim(s) _____ is/are allowed.

6) Claim(s) 33-37,40-55 and 57-64 is/are rejected.

7) Claim(s) 48 and 49 is/are objected to.

8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

11) The proposed drawing correction filed on _____ is: a) approved b) disapproved by the Examiner.

If approved, corrected drawings are required in reply to this Office action.

12) The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All b) Some * c) None of:

1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. _____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).

a) The translation of the foreign language provisional application has been received.

15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

1) <input type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s). _____
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)
3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____	6) <input type="checkbox"/> Other: _____

DETAILED ACTION

The relevance of the Weder reference (that it had the conjugated polymers and related features) had been overseen in the previous office action. New rejections based on that reference follow.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 53, 55 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 53, the light source lacks antecedent basis

The language of claim 55 "obtainable by" renders the claim indefinite, as not all methods of manufacturing can be known, and therefore whether a layer can be made by a given process cannot be determined.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

Art Unit: 2871

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 33 -35, 37- 46, 50, 53, 57, 59-64 are rejected under 35 U.S.C. 102(b)

as being clearly anticipated by Weder “Incorporation of photoluminescent polarizers into liquid crystal displays”.

The Weder reference shows a material which is dichroic in its absorption and emission (see page 1, end of column 1- page 2). A layer thickness of 2um thickness is disclosed (3rd column, near top). The polymer is a conjugated polymer (3rd column, middle, see the chemical structure, the benzene ring with alternating double bonds). A absorption dichroic ration of 15 and emissive of 22 is disclosed (column 3). Use in LCD stacked structures as claimed (fig 2, top and bottom embodiments are the two claimed structures). Improvement of brightness and viewing angle is disclosed (page 3, column 1, top of page). The spectrums is in that of the light source (in description of fig 2). Therefore, these claims are anticipated by Weder.

Claim Rejections - 35 USC § 103

Claims 36, 47, 51-52, 54, 55, 58, are rejected under 35 U.S.C. 103(a) as being unpatentable over Weder “Incorporation of photoluminescent polarizers into liquid crystal displays”.

Regarding claim 36, using an electrically switchable light valve was conventional, as substantially all LCD displays used were electronically, which therefore would have been obvious for the benefits associated with using conventional equipment.

Regarding claim 47, the reference discusses dichroic ratio as something to maximize (is the focus of the article) for the viewing property benefits. Therefore having a higher dichroic ratio would have been obvious.

Regarding claims 51-52, the use of multiple displays was well known for enabling the viewing of more information (two displays were well known to be better than one), and would therefore have been obvious for that reason.

55 – The product by process includes “obtainable by” or equivalent language, thereby clearly not defining over the prior art. Please keep in mind that a product by process limitation imparts patentability only in so far as it defines a materially different invention, and this does not and therefore does not impart patentability to the claim.

Regarding claim 58 brightness and viewing angle were- goals of the liquid crystal art, and mentioned in the reference, and therefore obvious to make as large as possible.

Claims 54 is rejected under 35 U.S.C. 103(a) as being unpatentable over Weder “Incorporation of photoluminescent polarizers into liquid crystal displays”.

Lacking from the disclosure is the dichroic mirror. Vriens, in a device that uses photoluminescent to enhanse a display, teaches in using a UV dichroic mirror for brightening the display, which would have been obvious for that reason.

Allowable Subject Matter

Claims 48-49 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

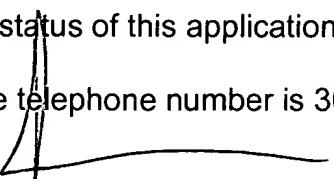
Applicant's arguments with respect to claims have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kenneth A Parker whose telephone number is 703-305-6202. The examiner can normally be reached on 9:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert H. Kim can be reached on 305-3492. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-7722 for regular communications and 703-308-7722 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 308-0956.



Kenneth A Parker
Primary Examiner
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March 18, 2003